CCS Technical Documentation
NEM-2 Series Transceivers

Service Tools

Issue 1 07/03
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FLA-36 POS (Point Of Sales) Flash Loading Adapter

FLA-36 POS Flash Loading Adapter is used in place of the phone's normal battery during service to supply a controlled operating voltage. It works only in connection with flashing tools FPS-8 or FLS-4.

The adapter is equipped with pins which will contact the necessary test pattern on the PWB.

Power supply is handled either with FLC-2 or with XCS-1.

Note: NEM-2 features two different Flash areas --> UPP and ADSP. FLA-36 is only designed for UPP Flashing, for ADSP Flashing an additional cable (DKU-2) is needed!

Product Code

FLA-36 POS Flash Loading Adapter: 0770467

View of FLA-36

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MJ-6 Module Test Jig

A module jig is designed to hold the main PWB and the UI module when covers are removed and component level troubleshooting / diagnostic are done.

Note! No RF tuning allowed with MJ-6.

The Module jig is used for

- Flashing in disassembled state
- Galvanic RF connection for testing only
- Galvanic FM connection for FM radio tests
- Galvanic FM Audio connection for FM radio tests
- Troubleshooting on component level
- MP3 audio tests
- Interface tests (SIM / MMC / Pop-Port connector / Line in)
- UI tests

Product Code

MJ-6 Module Test Jig: 0770463

Figure 1: View of MJ-6

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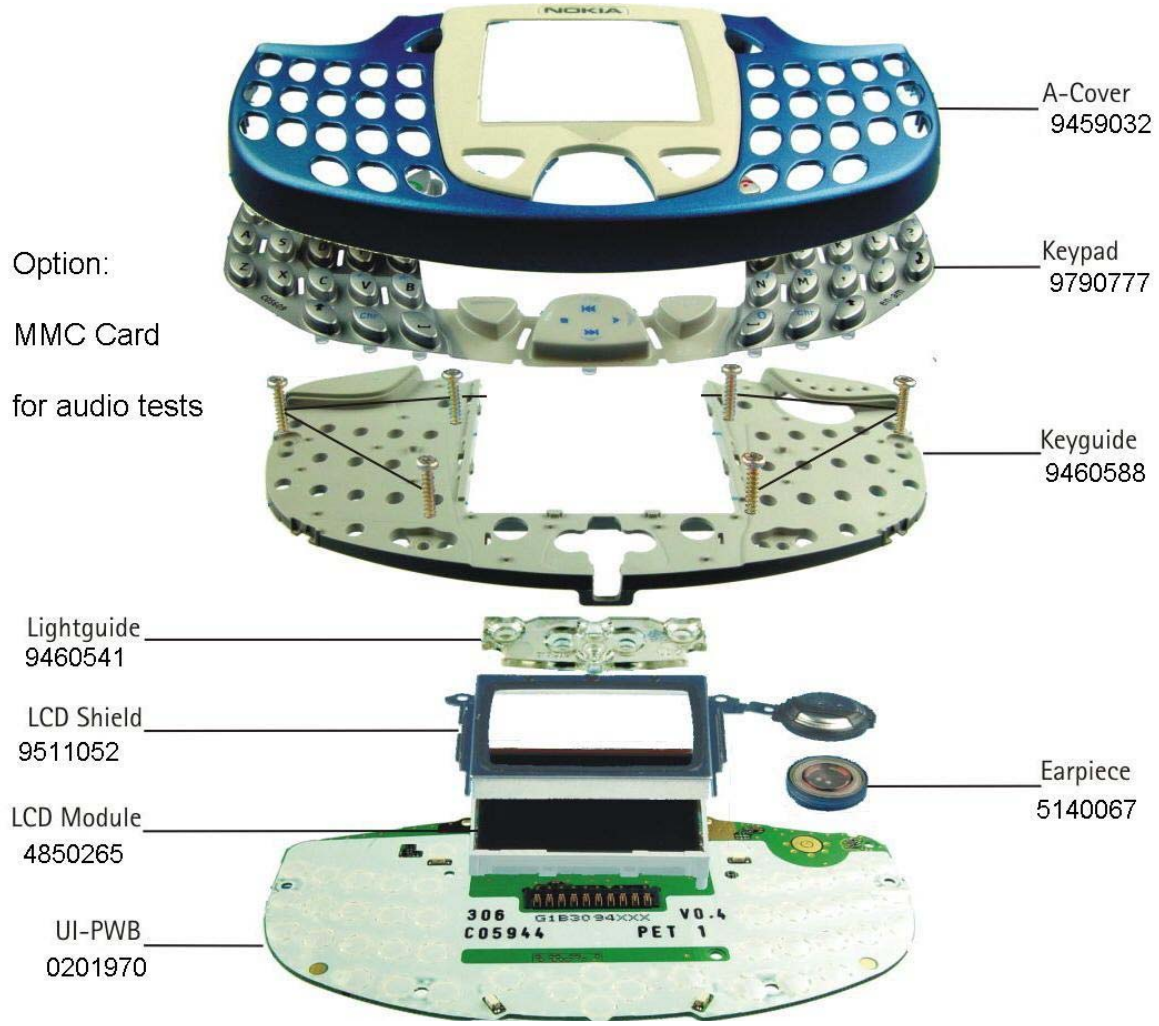
Additional UI parts for NEM-2 and MJ-6:



0201970	**EM20 UI PWB ASSY**
4850265	LCD MODULE 130X130 COF CSTN 4KCO
9460588	**KEY GUIDE ASSY For AMS**
9460541	**R1011-LIGHTGUIDE**
9511052	**LCD METAL FRAME**
5140067	**SPEAKER+SPRING 105+-3DB 32R D13.2**
9459032	**R1011-A-COVER ASSY LIGHT BLUE**
9790777	**R1011 KEYPAD COMMON ENGLISH**
0630708	**NEM-2 MMC 64MB W/ CONTENT**

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JXS-2 Shield box

JXS-2 Shield box is used for RF tuning and with DA-1 Docking adapter.

Note! JBV-1 stays outside the JXS-2 RF shielded chamber.

Product code

JXS-2 Shield box: 0770673

Figure 2: JXS-2:

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DA-1 Docking Adapter

Docking adapter is designed to hold the assembled phone for low level troubleshooting / diagnostics. A RF-coupler is integrated in the Docking station adapter.

Note! Tuning only with DA-1 inside JXS-2.

The Docking station adapter is used for:

- Flashing in assembled state
- GoNoGo tests
- RF connection for alignment of GSM parameters in JXS-2
- Energy Management calibration
- Test of SIM and MMC readers

Product Code

DA-1 Docking Station Adapter: 0774288

View of DA-1 with JBV-1

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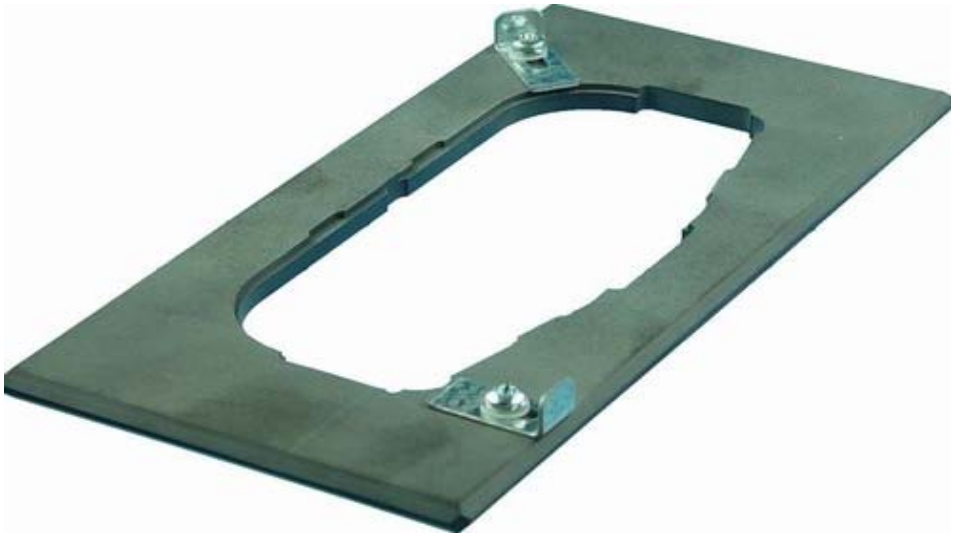
MJS-74 Soldering Jig

MJS-74 Soldering Jig is used for soldering and as a rework jig for NEM- 2 module.

Product Code

MJS-74 Module Jig: 0770464

View of MJS-74



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DKU-2 Bottom connector-USB cable

DKU-2 cable is used for ADSP Flashing and for some testing in NEM-2.

Product Code

DKU-2 cable: 0730238

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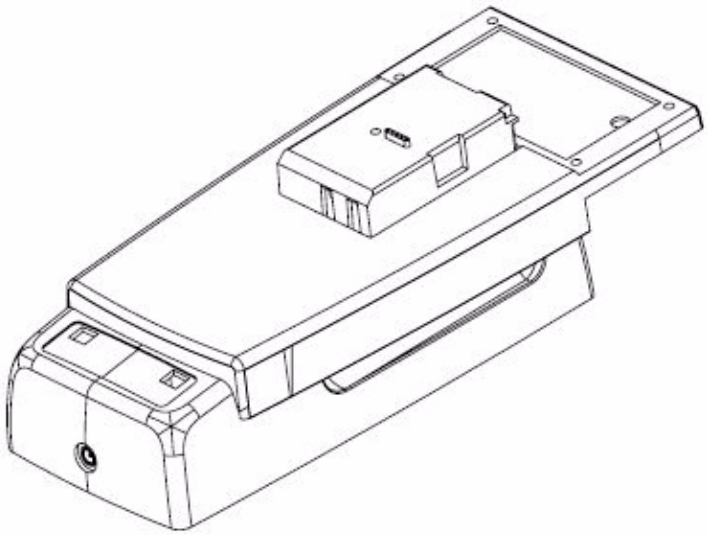
JBV-1 Docking station

The Docking station JBV-1 is used as the basic adapter for the Docking station adapter and is different for each product. It includes electronic parts and common interfaces. Note that the picture below describes JBV-1 connected to MJF-22.

Product Code

Docking station JBV-1	0770298



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FPS-8 Flash Prommer (Sales Pack)

The Flash Prommer FPS-8 is used with e.g. MJF-22 and JVB-1. Power is supplied to FPS-8 from the Universal Power Supply.

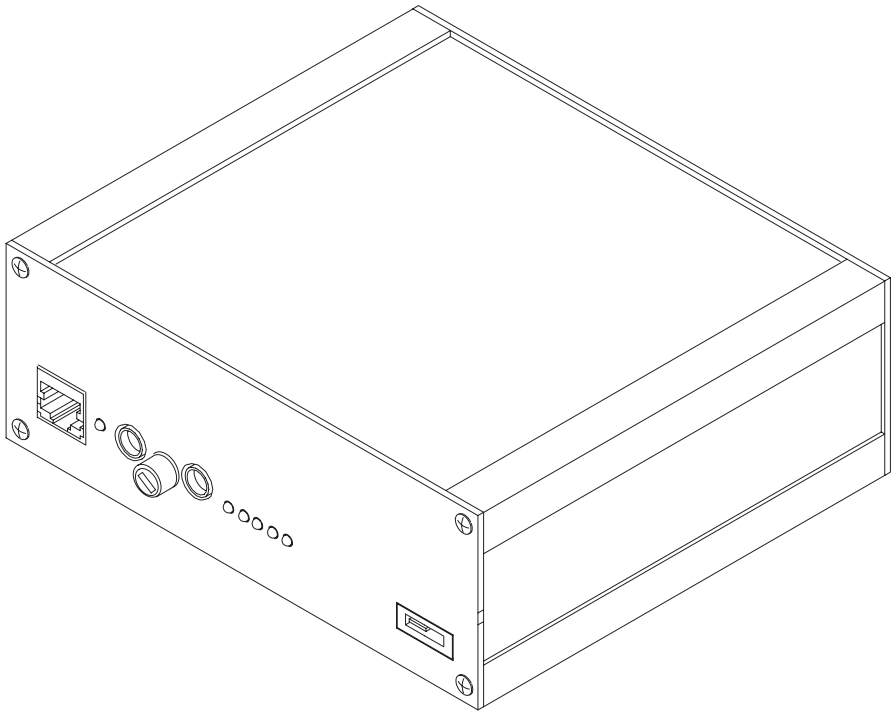
The sales pack includes:

- FPS-8 Flash Prommer	0750123
- FPS-8 Activation Sheet	9359289
- Universal Power Supply	0680032
- AXS-4 Service Cable (D9-D9)	0730090
- Printer cable	0730029

Sales package code

FPS-8 Flash Prommer:	0080321

View of FPS-8



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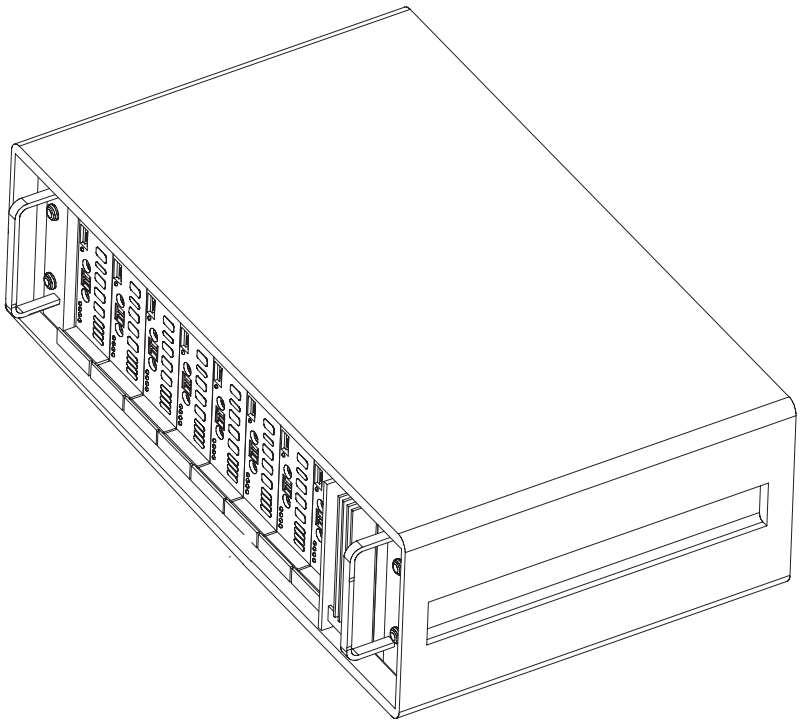
FPS-8C Parallel Flash Prommer (Sales Pack)

The Parallel Flash Prommer FPS-8C is used with MJF-22 and JVB-1. Flash programming can be done to maximum of 8 phones parallel. FPS-8C consists of eight SF11C programming cards. SF11C card is functionally identical to FPS-8.

Sales package code

FPS-8C Parallel Flash Prommer: 0080396

View of FPS-8C



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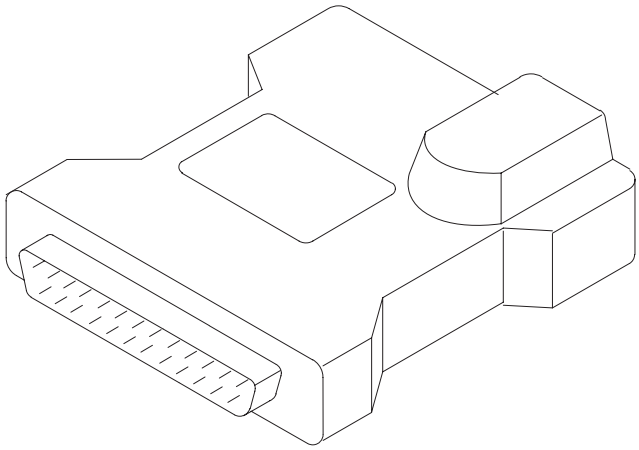
FLS-4S POS (Point Of Sales) Flash Device (Sales Pack)

FLS-4S is a dongle and flash device incorporated into one package and developed specifically for POS use.

Product Code

Sales Pack - Europe/Africa	0080541
Sales Pack - APAC	0080542
Sales Pack- US	0080543

View of FLS-4S



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PKD-1 SW Security Device

SW security device is a piece of hardware enabling the use of the service software when connected to the parallel (LPT) port of the PC. Without the dongle present it is not possible to use the service software. Printer or any such device can be connected to the PC through the dongle if needed.

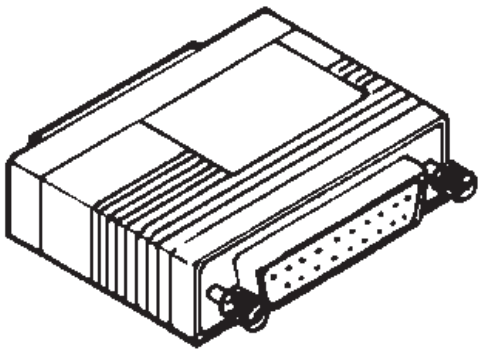
Caution: Make sure that you have switched off the PC and the printer before making connections!

Caution: Do not connect the PKD-1 to the serial port. You may damage your PKD-1!

Product Code

SW Security Device PKD-1: 0750018

View of SW Security Device



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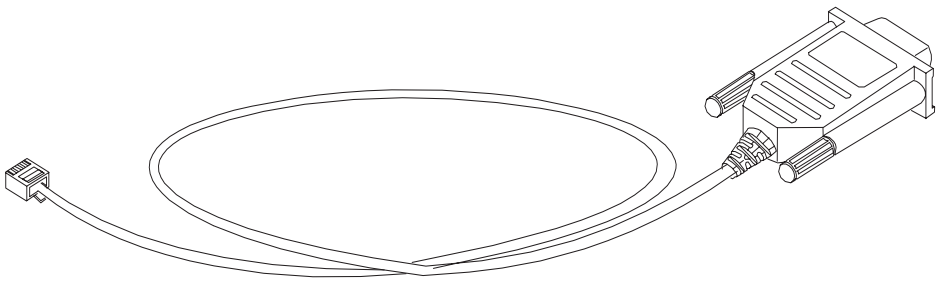
DAU-9S MBUS Cable

The MBUS Cable DAU-9S has a modular connector and is used between PC's serial port and e.g. Module Jig MJS-38.

Product Code

DAU-9S MBUS Cable: 0730108

View of DAU-9S



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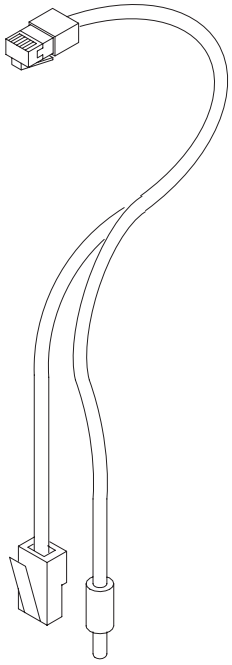
XCS-1 Service Cable

The XCS-1 Service Cable is used to connect FLS-4 to FLA-27.

Product code

XCS-1 Service Cable: 0730218

View of XCS-1



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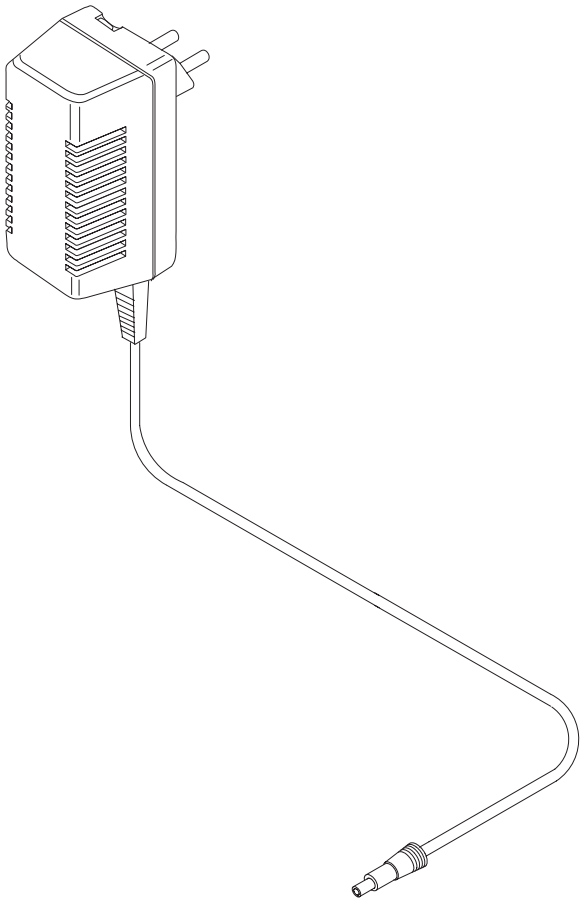
ACF-8 Universal Power Supply

ACF-8 Universal Power Supply is used to power FPS-8. ACF-8 has 6 V DC and 2.1 A output.

Product Code

ACF-8 Universal Power Supply: 0680032

View of ACF-8



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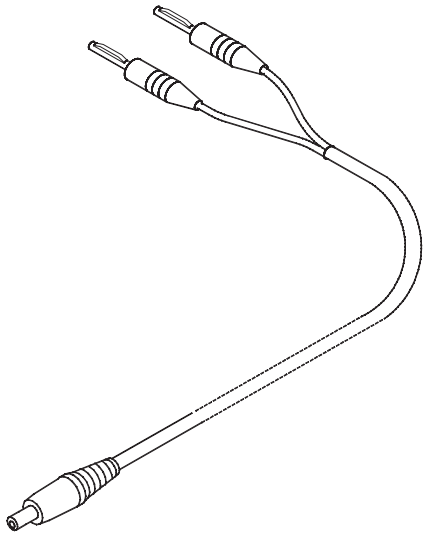
FLC-2 DC Cable

The FLC-2 is used to supply a controlled operating voltage.

Product Code

FLC-2 DC Cable: 0730185

View of FLC-2



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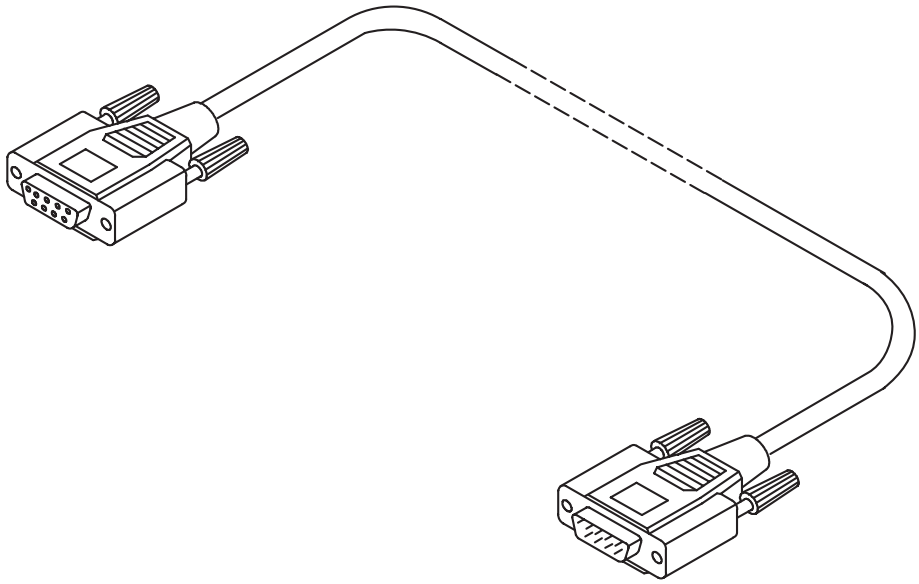
AXS-4 Service Cable

The AXS-4 D9-D9 Service Cable is used to connect two 9 pin D connectors e.g. between PC and FPS-8. Cable length is 2 meters.

Product code

AXS-4 D9-D9 Service Cable: 0730090

View of AXS-4



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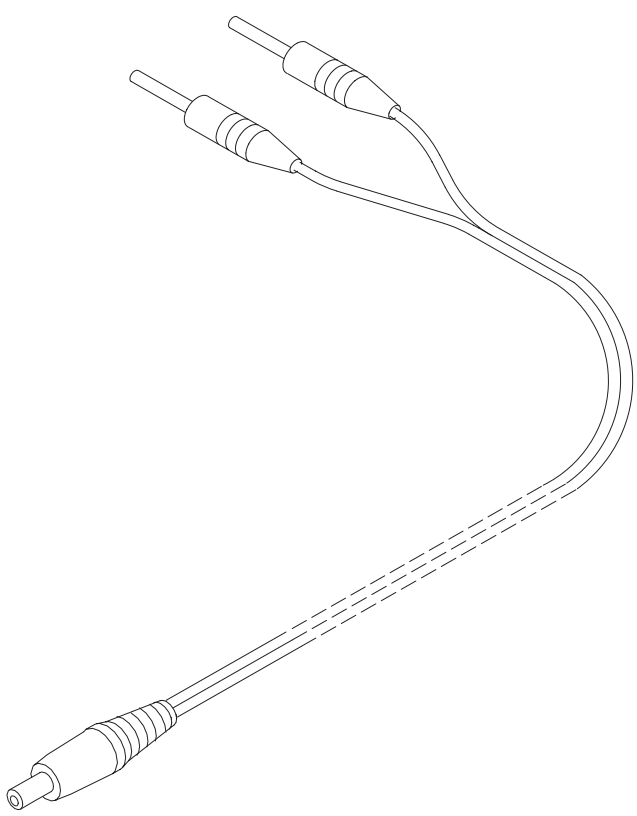
PCS-1 Power Cable

The PCS-1 Power Cable (DC) is used to connect e.g. JVB-1 to FPS-8.

Product Code

PCS-1 Power Cable: 0730012

View of PCS-1



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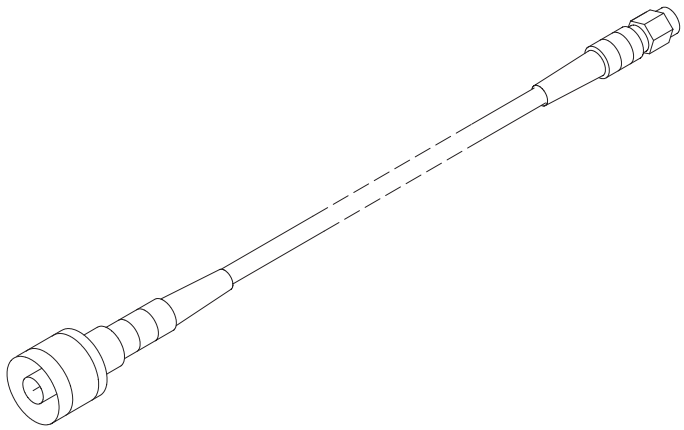
XRS-6 RF Cable

RF cable XRS-6 is used to connect e.g. Module Jig MJS-38 to RF measurement equipment.

Product code

XRS-6 RF Cable: 0730231

View of XRS-6



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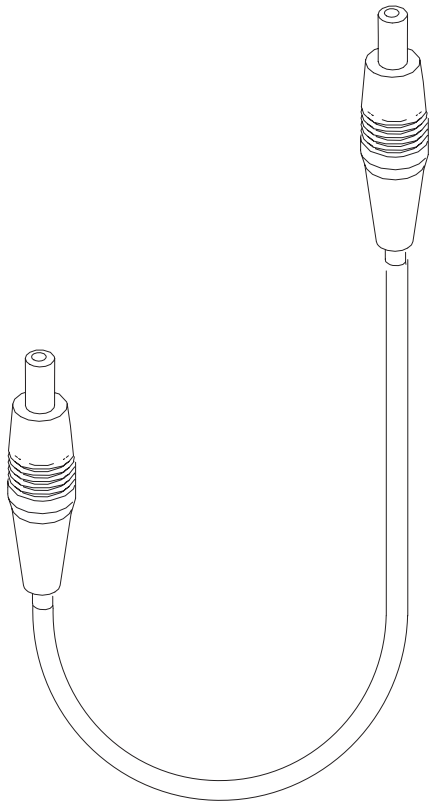
CA-5S DC Cable

The DC cable CA-5S is used to connect e.g. JBV-1 to the phone for EM calibration.

Product Code

CA-5S DC Cable: 0730283

View of CA-5S



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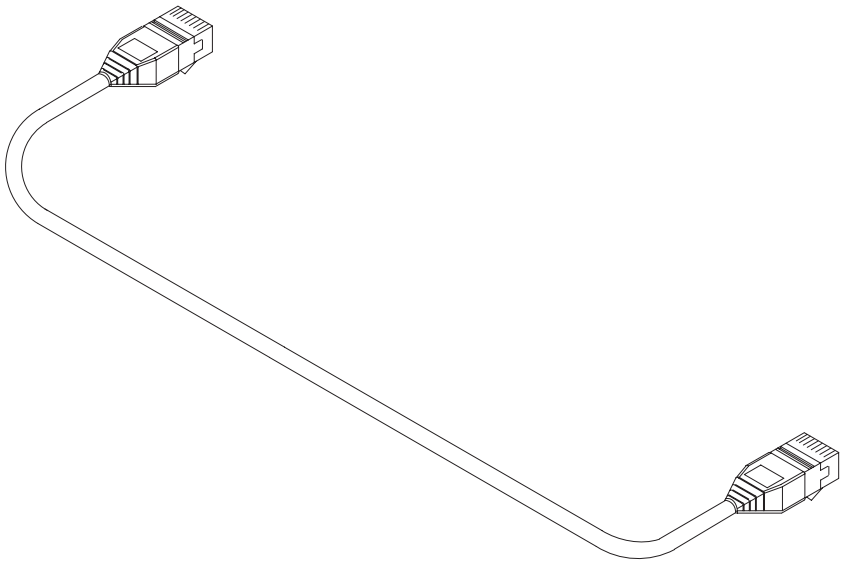
XCS-4 Modular Cable

XCS-4 is a shielded cable (one specially shielded conductor) modular cable for flashing and service purposes.

Product code

XCS-4 Modular Cable: 0730178

View of XCS-4



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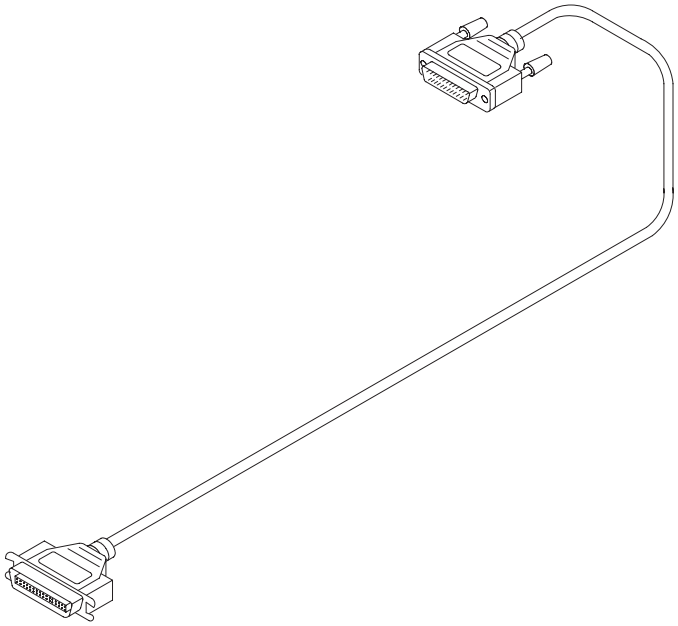
Printer Cable

This cable is used to connect the PC to FPS-8.

Product code

Printer Cable: 0730029

View of Printer Cable



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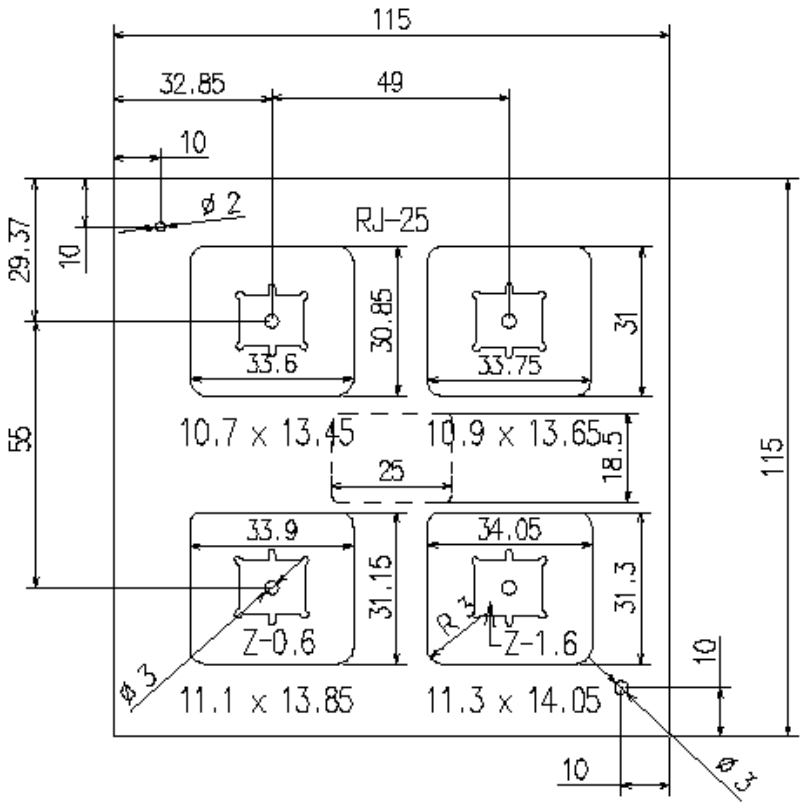
SK-5 LGA component rework kit

The kit is used for FM-radio component.

Product code

SK-5 LGA component rework kit 0274507

Figure 3:



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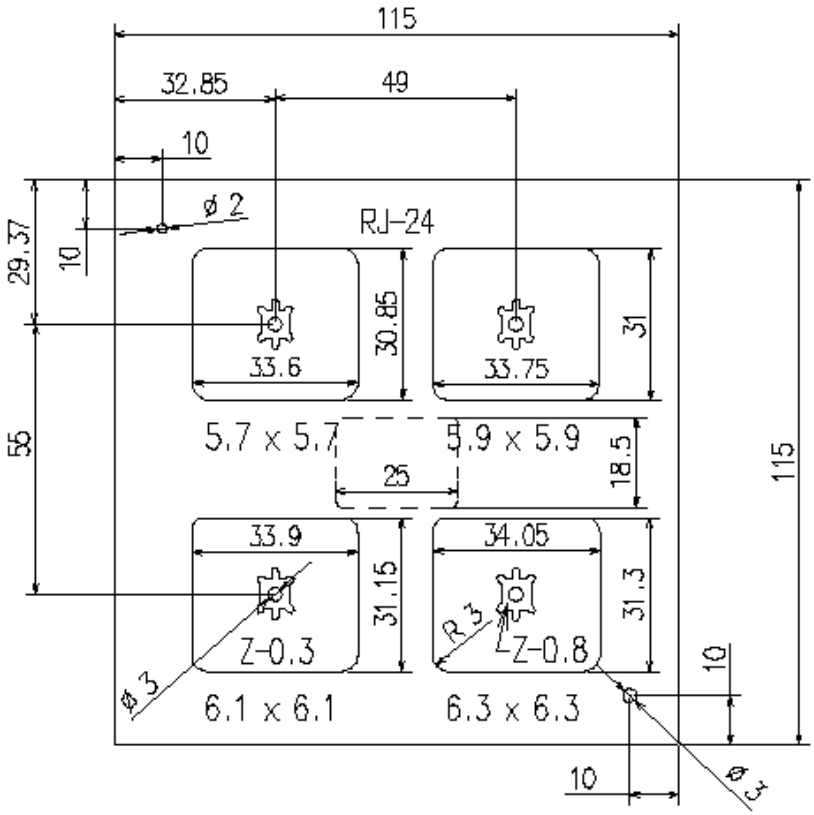
SK-6 LGA component rework kit

The kit is used for PA.

Product code

SK-6 LGA component rework kit 0274508

Figure 4:



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